

STATEMENT OF BASIS (AI No. 87738)

for draft Louisiana Pollutant Discharge Elimination System permit No. LA0114405 to discharge to waters of the State of Louisiana.

THE APPLICANT IS: Stolthaven New Orleans, LLC
Braithwaite Terminal
2444 English Turn Road
Braithwaite, LA 70040

ISSUING OFFICE: Louisiana Department of Environmental Quality (LDEQ)
Office of Environmental Services
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

PREPARED BY: Molly Hebert

DATE PREPARED: July 5, 2006

1. PERMIT STATUS

A. Reason For Permit Action:

Permit re-issuance of a Louisiana Pollutant Discharge Elimination System (LPDES) permit for a 5-year term.

B. LPDES permit – LA0114405	effective date: June 1, 2001 expiration date: May 31, 2006
LPDES permit – LAR10B253	effective date: November 1, 2004 expiration date: September 30, 2009
LPDES permit – LAG670053	effective date: February 19, 2003 expiration date: January 31, 2008
LPDES permit – LAG531748	effective date: January 19, 2005 expiration date: November 30, 2007

C. LWDPS permit -	effective date: NA expiration date: NA
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By the authority of edict LA R.S. 30:2001, *et seq.*, and the Environmental Regulatory Code, Part IX, Water Quality Regulations, LPDES permit LAG670053, issued on February 19, 2003, and LPDES permit LAG531748 issued January 19, 2005 will be cancelled upon issuance of the final permit.

D. Date Application Received: December 5, 2005; Additional Information Received on January 25, 2006 and August 1, 2006

2. FACILITY INFORMATION

A. FACILITY TYPE/ACTIVITY – petro/chemical bulk liquid storage and transfer facility;
centralized (non-hazardous) waste treatment facility

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Stolthaven New Orleans, LLC (SHVNN) is an existing “for hire” bulk liquid storage and transfer terminal. The facility receives, stores, and ships a wide variety of liquids (see commodity list in Appendix A) that are stored in aboveground storage tanks. All tank batteries are surrounded by secondary containment capable of containing the contents of the largest tank plus a 25-year, 24-hour rainfall event. Liquids are shipped/received by barge, rail, and truck.

The terminal is being constructed in phases as dictated by customer demand and economic conditions. Upon completion, there will be an estimated 178 tanks with an estimated total storage capacity of approx. 4,377,000 barrels. Currently, the terminal is comprised of seven tank batteries, three truck loading/unloading racks, two rail loading/unloading racks, two marine docks, a wastewater treatment plant, and administrative/utility support facilities.

The facility currently discharges process wastewater from Outfall 001 to the Mississippi River. This process water includes wastewater from the segregated chemical sewer system, wastewater from the tank/pipeline/transportation equipment cleaning operations, bilge and ballast waters, hydrostatic test waters, sanitary wastewater, firefighting test water, laboratory wastewater, and utility wastewater. The utility wastewater includes boiler blowdown, steam condensate, flare liquid knockout, and scrubber wastewaters. Stormwater that has been contaminated may also be routed to the treatment plant. In this application, SHVNN is proposing to accept offsite oil and organic wastes to the treatment plant for discharge through Outfall 001. These wastes are described as “wastewater generated from any type of offsite activity that produces wastewater compatible and acceptable for treatment,” excluding hazardous wastes and metal-bearing wastes (defined in 40 CFR 437.2). These wastewaters include, but are not limited to, tank bottoms, contaminated stormwater from dikes and process areas, wastewater from pipelines, and tank/container activities. An initial certification statement to become a centralized waste treatment facility has been submitted per 40 CFR 437 Subpart D.

Stormwater, falling in areas where leaks are most likely to occur (ie. loading and manifold areas), is routed directly to the wastewater treatment plant. Stormwater in the tank battery areas is collected in sumps and sampled. Stormwater requiring treatment is routed to the wastewater treatment plant and discharged through Outfall 001. Stormwater not requiring further treatment is pumped directly to the Mississippi River through Outfalls 002 and 003. The facility has been graded to route stormwater from unpaved areas and parking lots to Outfalls 009-012 which flow to the Braithwaite Canal.

Hydrostatic testing is performed on-site. Discharge of hydrostatic test wastewaters will be covered under Outfall 005. SHVNN also has 3 package treatment plants for treatment of sanitary wastewaters. These plants will discharge through Outfalls 006-008 to the Braithwaite Canal.

The nearest drinking water intake is Belle Chasse Waterworks, located on the left descending bank 75.8 M.A.H.P., 4.2 miles downstream from the discharge.

SHVNN requires manifests and follows a testing protocol prior to accepting off-site waste in order to assure that the wastes can be treated by the WWTP.

B. FEE RATE

1. Fee Rating Facility Type: minor
2. Complexity Type: IV – SIC 4953 for Commercial Non-Hazardous Industrial Waste Disposal
3. Wastewater Type: II
4. SIC code: 4226, 4953, 4491, 4499

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C. LOCATION - 2444 English Turn Road in Braithwaite, Plaquemines Parish
 Mississippi River 80.0 M.A.H.P., Latitude 29°52'22", Longitude 89°57'03"

3. OUTFALL INFORMATION

Outfall 001

Discharge Type: continuous discharge of treated process water from the chemical sewer system; wastewater from the tank/pipeline/transportation equipment cleaning operations; wastewater from treatment of offsite oil and organic wastes; bilge and ballast waters; hydrostatic and firefighting test waters; contaminated stormwater from the storage tank containment areas; sanitary wastewater; laboratory wastewater; and utility wastewaters (including boiler blowdown; steam condensate; flare liquid knockout, and scrubber wastewaters)

Treatment: equalization, flocculation, floatation, trickling filtration, activated sludge carbon adsorption, neutralization, and disinfection

Location: at the point of discharge from the Parshall Flume, prior to combining with any other wastewaters. Latitude: 29°52'01" Longitude: 89°56'33"

Flow: continuous; 0.044 MGD; Design capacity is 0.1728 MGD

Discharge Route: to the Mississippi River

Outfall 002

Discharge Type: stormwater runoff from Tank Batteries, firefighting test waters, steam condensate, hydrostatic test wastewater, and non-TEC wash water when treatment is not required. If water requires treatment, it shall be routed to the wastewater treatment plant and discharged through Outfall 001.

Treatment: when discharged through 002 - none; if discharged to 001 - equalization, flocculation, floatation, trickling filtration, activated sludge carbon adsorption, neutralization, and disinfection

Location: at the point of discharge located on Dock 4, prior to combining with any other waters
 Latitude: 29°52'18" Longitude: 89°56'42"

Flow: intermittent

Discharge Route: to the Mississippi River

Outfall 003

Discharge Type: stormwater from Tank Batteries, firefighting test waters, steam condensate, hydrostatic test waters, and non-TEC wash water when treatment is not required. If water requires treatment, it shall be routed to the wastewater treatment plant and discharged through Outfall 001.

Treatment: when discharged through 003 - none; if discharged to 001 - equalization, flocculation, floatation, trickling filtration, activated sludge carbon adsorption, neutralization, and disinfection

Location: at the point of discharge located on Dock 3, prior to mixing with any other waters.
 Latitude: 29°52'20" Longitude: 89°56'46"

Flow: intermittent

Discharge Route: to the Mississippi River

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Outfall 004

This outfall has been deleted. The discharges from the sumps identified as SW-3 (Outfall 003) and SW-4 (Outfall 004) are currently piped to a common line on Dock 3. A sampling port will be added to this line as the new sampling point for Outfall 003 above. SHVNN has requested this change in anticipation of future construction.

Outfall 005 ^{*a}

Discharge Type: hydrostatic test wastewater
 Treatment: none
 Location: at the point of discharge from the tested vessel or pipe, prior to combining with any other waters
 Flow: varies by size of vessel tested
 Discharge Route: to either the Mississippi River or to Braithwaite Canal, dependant on location of vessel

Outfall 006 ^{*b}

Discharge Type: sanitary wastewater
 Treatment: package treatment plant with disinfection (chlorine)
 Location: at the point of discharge from the package treatment plant to the north ditch along Highway 3137, near the driveway to the Administration Office Building, prior to combining with any other waters Latitude: 29°52'18" Longitude: 89°57'01"
 Flow: 0.002 MGD
 Discharge Route: by ditch to Braithwaite Canal

Outfall 007 ^{*b}

Discharge Type: sanitary wastewater
 Treatment: package treatment plant with disinfection (chlorination)
 Location: at the point of discharge from the package treatment plant to an internal ditch near the Maintenance Office Trailer, prior to combining with any other waters Latitude: 29°52'03" Longitude: 89°56'41"
 Flow: 0.002 MGD
 Discharge Route: by ditch to Braithwaite Canal

Outfall 008 ^{*b}

Discharge Type: sanitary wastewater
 Treatment: package treatment plant with disinfection (chlorination)
 Location: at the point of discharge from the package treatment plant to an internal ditch near the Wastewater Office trailer, prior to combining with any other waters Latitude: 29°52'02" Longitude: 89°56'31"
 Flow: 0.002 MGD
 Discharge Route: by ditch to Braithwaite Canal

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Outfall 009

Discharge Type: storm water from parking lots and unpaved areas of the terminal ^{*c}, firefighting test water, previously monitored hydrostatic test wastewater, and previously monitored sanitary wastewater from Outfalls 007 and 008.

Treatment: none

Location: at the point of discharge to the Hwy 3137 road side ditch south of Tank Battery H, prior to combining with any other waters Latitude: 29°52'14" Longitude: 89°56'58"

Flow: intermittent

Discharge Route: by ditch to Braithwaite Canal

Outfall 010

Discharge Type: storm water from parking lots and unpaved areas of the terminal ^{*c}, firefighting test water, previously monitored hydrostatic test wastewater, and previously monitored sanitary wastewater.

Treatment: none

Location: at the point of discharge to the Hwy 39 road side ditch south of the land flare, prior to combining with any other waters Latitude: 29°51'60" Longitude: 89°56'39"

Flow: intermittent

Discharge Route: by ditch to Braithwaite Canal

Outfall 011

Discharge Type: storm water from parking lots and unpaved areas of the terminal ^{*c}, firefighting test water, previously monitored hydrostatic test wastewater, and previously monitored sanitary wastewater.

Treatment: none

Location: at the point of discharge to the Hwy 39 roadside ditch on the southeast side of the facility, prior to combining with any other waters Latitude: 29°51'57" Longitude: 89°56'27"

Flow: intermittent

Discharge Route: by ditch to Braithwaite Canal

Outfall 012

Discharge Type: storm water from parking lots and unpaved areas of the terminal ^{*c}, firefighting test water, previously monitored hydrostatic test wastewater, and previously monitored sanitary wastewater.

Treatment: none

Location: at the point of discharge to the Hwy 39 roadside ditch, near the parking lot, prior to combining with any other waters Latitude: 29°51'58" Longitude: 89°56'23"

Flow: intermittent

Discharge Route: by ditch to Braithwaite Canal

*a – previously covered under LPDES General Permit LAG670053 and Outfall 005 of the previous permit

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*b – previously covered under LPDES General Permit LAG531748

*c – This stormwater does not have the potential to contact process areas. SHVNN has graded the facility and installed culverts to route this stormwater away from the process areas to an existing ditch north of the terminal.

4. RECEIVING WATERS

STREAM - Mississippi River (001, 002, 003, 005)

BASIN AND SEGMENT - Mississippi River Basin, Segment 070301

DESIGNATED USES -

- a. primary contact recreation
- b. secondary contact recreation
- c. propagation of fish and wildlife
- d. drinking water supply

STREAM – Braithwaite Canal (005, 006, 007, 008, 009, 010, 011, 012)

BASIN AND SEGMENT – Lake Pontchartrain Basin, Segment 042102

DESIGNATED USES -

- a. primary contact recreation
- b. secondary contact recreation
- c. propagation of fish and wildlife
- d. oyster propagation (applies only to listed waterbody, River Aux Chenes)

5. PROPOSED EFFLUENT LIMITS

BASIS - See Rationale page below.

6. COMPLIANCE HISTORY/COMMENTS

A. Compliance History

1. July 11, 2005 – Tropical Storm Cindy dropped a large amount of rain and caused an extended power outage. The lift stations were not operable and were overwhelmed resulting in a discharge of storm water through Outfalls 002, 003, and 004. Containment around Tank Battery A was breached to save equipment. The discharge was estimated at 719, 424 gallons.
2. June 17, 2005 – an external valve broke loose during a transfer releasing approx. 3 gallons of amines.
3. December 16, 2004 – An inspection was conducted in response to a complaint that the company was releasing acrylonitrile. The inspector was told that a leaking seal was discovered during a routine check. The leak was a drip that vaporized on contact with the spill pan. The area was isolated and the seal was repaired. The leak was beneath the RQ level and was not reported.
4. September 23, 2004 – A compliance evaluation inspection noted the following:
 - i. There were many permit exceedances (see below DMR Review).
 - ii. Failure to monitor BOD/TSS for 002, 003, 004, in April 2003.

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- iii. Failure to use composite sampling for metals and volatiles at 002 from June 01-Sept 03.
 - iv. Failure to obtain metals and volatiles for 002 in 2nd quarter of 2003.
 - v. Failure to obtain oil & grease, TSS, BOD, COD, pH, and Fecals for 001 in April 2003.
 - vi. Failure to obtain oil & grease, TSS, BOD, COD, pH for 003 in September 2003.
- Violations 3, 4, and 6 were corrected at the time of inspection. The operation and maintenance of the facility was deemed satisfactory at the time of inspection.
5. July 23, 2004 – Fifty gallons of Hyspray PXT were released from a hose connected to a barge. Thirty gallons were contained on the barge/dock area and 20 gallons were released to the Mississippi River.
 6. July 2, 2004 – A hose gasket failed during transfer of styrene from a barge to a shore tank. The facility estimated that 7 lbs of styrene were contained on the barge drip pan and less than 1 lb spilled to the Mississippi River.
 7. January 17, 2004 – A weld on a 6" transfer flange failed during transfer. Three barrels of glycerine were spilled to the Mississippi River. No clean up was possible due to the material density.
 8. November 2, 2003 – Approximately 20 gallons of Lutensit Z96 were released by a leaking hose to the dock containment area. There was no release to water.
 9. July 3, 2003 – Compliance order WE-CN-03-0352 was issued for failure to submit DMRs timely, failure to sample for Appendix A parameters, and numerous permit excursions.

B. DMR Review/Excursions: DMRs from 2003 to 2005 were reviewed. All DMRS have been submitted. The facility has had numerous permit violations in this time period. The following is a summary of excursions reported in the previous 7 months. DMRs were not found for Outfalls 001 of LAG670053, 006, 007, and 008 of LAG531748.

<u>Date</u>	<u>Parameter</u>	<u>Outfall</u>	<u>Reported Value</u> (Average: Max)	<u>Permit Limits</u> (Average : Max)
Jun 2005	TSS	002	88 : 88	26 : 58
	TSS	003	86 : 86	26 : 58
	BOD ₅	004	46.2 : ---	22 : 56
May 2005	BOD ₅	003	24.9 : ---	22 : 56
	TSS	003	45 : ---	26 : 58
	TSS	004	238 : 238	26 : 58
Apr 2005	TSS	002	180 : 180	26 : 58
	TSS	003	202 : 202	26 : 58
	TSS	004	53 : ---	26 : 58
Mar 2005	TSS	002	101 : 101	26 : 58
	Oil & Grease	004	12.4 : ---	8.8 : 20
Feb 2005	BOD ₅	001	50 : 83	22 : 56
	TSS	001	39 : 80	26 : 58
	TSS	002	77 : 77	26 : 58
	TSS	003	85 : 85	26 : 58
Jan 2005	BOD ₅	004	27.4 : ---	22 : 56
	TSS	002	110 : 110	26 : 58
	BOD ₅	003	39.4 : ---	22 : 56
	TSS	003	55 : ---	26 : 58

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Dec 2004	BOD ₅	004	42.2 : 42.2	22 : 56
	TSS	002	1330 : 1330	26 : 58
	COD	002	--- : 260	--- : 125
	BOD ₅	003	45.4 : ---	22 : 56
	TSS	003	34 : ---	26 : 58
	BOD ₅	004	38.8 : ---	22 : 56
	TSS	004	83 : 83	26 : 58

“—“ → permit limit not exceeded.

7. 303(d) LISTED WATERBODIES

The discharges from Stolthaven New Orleans, LLC – Braithwaite Terminal are into the Mississippi River (Outfalls 001 – 003,005), Subsegment 070301 of the Mississippi River Basin and Braithwaite Canal (Outfalls 005 - 012), Subsegment 042102 of the Lake Pontchartrain Basin.

Subsegment 070301 (001, 002, 003, and 005)

Subsegment 070301, Mississippi River – From Monte Sano Bayou to Head of Passes, is not listed on LDEQ's Final 2004 303(d) List as impaired, and to date no TMDL's have been established. A reopener clause will be established in the permit to allow for the requirement of more stringent effluent limitations and requirements as imposed by any future TMDLs.

Subsegment 042102 (005-012)

Subsegment 042102, River Aux Chenes (Oak River), is not listed on LDEQ's Final 2004 303(d) List as impaired, and to date no TMDL's have been established. A reopener clause will be established in the permit to allow for the requirement of more stringent effluent limitations and requirements as imposed by any future TMDLs.

8. EXISTING EFFLUENT LIMITS

Outfall 001 – the continuous discharge of boiler blowdown, sanitary wastewater, ship ballast water, laboratory wastewater, barge/ship/tanktruck/railcar washwaters, bilge wastewater, tank & pipeline cleaning waters, flare liquid knockout, caustic scrubber wastewaters, and storm water runoff.

Outfall 002 – the intermittent discharge of stormwater runoff from Tank Battery B, firefighting test waters, miscellaneous washwaters (including but not limited to slab washdown and equipment washwater), and previously monitored hydrostatic test water.

Outfall 003 – the intermittent discharge of stormwater runoff from Tank Batteries A, C, D&E, F, G, H, and J, firefighting test waters, miscellaneous washwaters (including but not limited to slab washdown and equipment washwater), and previously monitored hydrostatic test water.

Outfall 004 - the intermittent discharge of stormwater runoff from future tank batteries, firefighting test waters, miscellaneous washwaters (including but not limited to slab washdown and equipment washwater), and previously monitored hydrostatic test water.

Outfall 005 – intermittent discharge of hydrostatic test water

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Outfall 001

Effluent Parameter	Monthly Average (mg/L)	Daily Maximum (mg/L)	Measurement Frequency
Flow	Report	Report	continuous
BOD ₅	22	56	1/week
TSS	26	58	1/week
Oil and Grease	8.8	20	1/week
COD	250	400	1/week
Fecal Coliform (colonies/100 ml)	200	400	1/week
pH Minimum/Maximum (Standard Units)	6.0 Minimum	9.0 Maximum	1/week
Metals			
Total Antimony	---	0.60	1/month (*1)
Total Arsenic	---	0.10	1/month (*1)
Total Beryllium	---	0.10	1/month (*1)
Total Cadmium	---	0.02	1/month
Total Chromium	---	0.42	1/month
Total Copper	---	0.10	1/month
Total Lead	---	0.14	1/month
Total Mercury	---	0.0013	1/month
Total Nickel	---	0.58	1/month
Total Selenium	---	0.10	1/month(*1)
Total Silver	---	0.10	1/month(*1)
Total Thallium	---	0.10	1/month(*1)
Total Zinc	---	8.3	1/month
Volatile Compounds			
Acrolein	---	0.10	1/month(*1)
Acrylonitrile	---	0.10	1/month(*1)
Benzene	---	0.10	1/month(*1)
Dichlorobromomethane	---	0.10	1/month(*1)
Bromoform	---	0.10	1/month(*1)
Carbon Tetrachloride	---	0.10	1/month(*1)
Chlorobenzene	---	0.10	1/month(*1)
Chloroethane	---	0.10	1/month(*1)
2-Chloroethyl vinyl ether	---	0.10	1/month(*1)
Chloroform	---	0.10	1/month(*1)
Chlorodibromomethane	---	0.10	1/month(*1)
1,1-dichloroethane	---	0.10	1/month(*1)
1,2-dichloroethane	---	0.10	1/month(*1)
1,1-dichloroethylene	---	0.10	1/month(*1)
1,2-trans-dichloroethylene	---	0.10	1/month(*1)
1,2-dichloropropane	---	0.10	1/month(*1)
1,3-dichloropropylene	---	0.10	1/month(*1)
Ethylbenzene	---	0.10	1/month(*1)

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Effluent Parameter	Monthly Average (mg/L)	Daily Maximum (mg/L)	Measurement Frequency
Methyl bromide	---	0.10	1/month(*1)
Methyl chloride	---	0.10	1/month(*1)
Methylene chloride	---	0.10	1/month(*1)
1,1,2,2-tetrachloroethane	---	0.10	1/month(*1)
Tetrachloroethylene	---	0.10	1/month(*1)
Toluene	---	0.10	1/month(*1)
1,1,1-trichloroethane	---	0.10	1/month(*1)
1,1,2-trichloroethane	---	0.10	1/month(*1)
Trichloroethylene	---	0.10	1/month(*1)
Vinyl chloride	---	0.10	1/month(*1)
Acid Compounds			
2-chlorophenol	---	0.10	1/month(*1)
2,4-dichlorophenol	---	0.10	1/month(*1)
2,4-dimethylphenol	---	0.10	1/month(*1)
4,6-dinitri-o-cresol	---	0.10	1/month(*1)
2,4-dinitrophenol	---	0.10	1/month(*1)
2-nitrophenol	---	0.10	1/month(*1)
4-nitrophenol	---	0.10	1/month(*1)
p-chloro-m-cresol	---	0.10	1/month(*1)
Pentachlorophenol	---	0.10	1/month(*1)
Phenol	---	0.10	1/month(*1)
2,4,6-trichlorophenol	---	0.10	1/month(*1)
Base Neutral Compounds			
Acenaphthene	---	0.10	1/month(*1)
Acemaphthylene	---	0.10	1/month(*1)
Anthracene	---	0.10	1/month(*1)
Chlorobenzene	---	0.10	1/month(*1)
Chloroethane	---	0.10	1/month(*1)
2-chloroethyl vinyl ether	---	0.10	1/month(*1)
Chloroform	---	0.10	1/month(*1)
4-bromophenyl phenyl ether	---	0.10	1/month(*1)
Butyl benzyl phthalate	---	0.10	1/month(*1)
1,2-diphenylhydrazine	---	0.10	1/month(*1)
2-chloronaphthalene	---	0.10	1/month(*1)
4-chlorophenyl phenyl ether	---	0.10	1/month(*1)
Chrysene	---	0.10	1/month(*1)
Dibenz(a,h)anthracene	---	0.10	1/month(*1)
1,2-dichlorobenzene	---	0.10	1/month(*1)
1,3-dichlorobenzene	---	0.10	1/month(*1)
1,4-dichlorobenzene	---	0.10	1/month(*1)
3,3-dichlorobenzidine	---	0.10	1/month(*1)
Diethyl phthalate	---	0.10	1/month(*1)

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Effluent Parameter	Monthly Average (mg/L)	Daily Maximum (mg/L)	Measurement Frequency
Dimethyl phthalate	---	0.10	1/month(*1)
Di-n-butyl phthalate	---	0.10	1/month(*1)
Di-n-octyl phthalate	---	0.10	1/month(*1)
2,6-dinitrotoluene	---	0.10	1/month(*1)
2,4-dinitrotoluene	---	0.10	1/month(*1)
Fluoranthene	---	0.076	1/month
Fluorene	---	0.10	1/month(*1)
Hexachlorobenzene	---	0.10	1/month(*1)
Hexachlorobutadiene	---	0.10	1/month(*1)
Hexachlorocyclopentadiene	---	0.10	1/month(*1)
Hexachloroethane	---	0.10	1/month(*1)
Indeno(1,2,3-cd)pyrene	---	0.10	1/month(*1)
Isophorone	---	0.10	1/month(*1)
Naphthalene	---	0.10	1/month(*1)
Nitrobenzene	---	0.10	1/month(*1)
N-nitrosodimethylamine	---	0.10	1/month(*1)
N-nitrosodi-n-propylamine	---	0.10	1/month(*1)
N-nitrosodiphenylamine	---	0.10	1/month(*1)
Phenanthrene	---	0.34	1/month
Pyrene	---	0.10	1/month(*1)
1,2,4-trichlorobenzene	---	0.10	1/month(*1)
Pesticides			
Aldrin	---	0.01	1/month(*1)
Alpha-BMC	---	0.01	1/month(*1)
Beta-BMC	---	0.01	1/month(*1)
Gamma-BMC	---	0.01	1/month(*1)
Delta-BMC	---	0.01	1/month(*1)
Chlordane	---	0.01	1/month(*1)
4,4'-DDT	---	0.01	1/month(*1)
4,4'-DDE	---	0.01	1/month(*1)
4,4'-DDD	---	0.01	1/month(*1)
Dieldrin	---	0.01	1/month(*1)
Alpha-endosulfan	---	0.01	1/month(*1)
Beta-endosulfan	---	0.01	1/month(*1)
Endosulfan sulfate	---	0.01	1/month(*1)
Endrin	---	0.005	1/month(*1)
Endrin aldehyde	---	0.01	1/month(*1)
Heptachlor	---	0.01	1/month(*1)
Heptachlor epoxide	---	0.01	1/month(*1)
PCB-1242	---	0.005	1/month(*1)
PCB-1254	---	0.005	1/month(*1)
PCB-1221	---	0.005	1/month(*1)
PCB-1232	---	0.005	1/month(*1)

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PCB-1248	---	0.005	1/month (*1)
PCB-1260	---	0.005	1/month (*1)
PCB-1016	---	0.005	1/month (*1)
Toxaphene	---	0.01	1/month (*1)

(*1) Only those pollutants which might be present in the materials handled onsite are required to be monitored

Outfalls 002, 003, 004

Effluent Parameter	Monthly Average (mg/L)	Daily Maximum (mg/L)	Measurement Frequency
Flow - GPD	Report	Report	1/month
BOD ₅	22	56	1/month
TSS	26	58	1/month
Oil and Grease	8.8	20	1/month
pH Minimum/Maximum (Standard Units)	6.0 Minimum	9.0 Maximum	1/month
Metals			
Total Cadmium	---	0.02	1/quarter
Total Chromium	---	0.42	1/quarter
Total Copper	---	0.10	1/quarter
Total Lead	---	0.14	1/quarter
Total Mercury	---	0.0013	1/quarter
Total Nickel	---	0.58	1/quarter
Total Zinc	---	8.3	1/quarter
Base Neutral Compounds			
Fluoranthene	---	0.076	1/quarter
Phenanthrene	---	0.10	1/quarter

Outfall 005

Effluent Parameter	Monthly Average (mg/L)	Daily Maximum (mg/L)	Measurement Frequency
Flow	Report	Report	1/discharge
TSS (*1)	---	90	1/discharge
Oil & Grease	---	15	1/discharge
TOC (*2)	---	50	1/discharge
Benzene (*2)	---	50 ug/l	1/discharge
Total BTEX (*2)	---	250 ug/l	1/discharge
Total Lead (*2)	---	50 ug/l	1/discharge
pH Minimum/Maximum (Standard Units)	6.0 Minimum	9.0 Maximum	1/discharge

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(*1) The background concentration of TSS is allowed in the discharge if the effluent is being returned to the same water source from which the intake water was obtained.

(*2) Measured on discharges from pipes or vessels which have previously been in service. Benzene, BTEX, and Total Lead is measured on discharges from pipelines or vessels which have been used for the storage or transportation of liquid or gaseous petroleum hydrocarbons.

Outfalls 006, 007, 008

These discharges are covered under the general permit, LAG531748. The following limitations and monitoring requirements apply to all three outfalls.

Effluent Parameter	Monthly Average (mg/L)	Weekly Average (mg/L)	Measurement Frequency
Flow	---	Report	1/6 months
BOD ₅	---	45	1/6 months
TSS	---	45	1/6 months
Oil & Grease	---	15	1/6 months
Fecal Coliform Colonies/100 ml	---	400	1/6 months
pH Minimum/Maximum (Standard Units)	6.0 Minimum	9.0 Maximum	1/6 months

Changes from Existing Permit:

- (1) **Centralized Waste Treatment ELGs from 40 CFR 437 have been applied to Outfall 001.**
- (2) **TEC Guidelines have been removed from Outfalls 002 and 003. Priority pollutant scan and bulk terminal monitoring language have been added to these outfalls.**
- (3) **Outfall 004 has been deleted.**
- (4) **Outfall 005 has been modified to include all hydrostatic discharges at the facility. This outfall will replace Outfall 001 of LAG670053 currently held by SHVNN.**
- (5) **Outfalls 006, 007, and 008 have been incorporated into this permit. These outfalls were previously covered in LAG531748.**
- (6) **Stormwater outfalls 009, 010, 011, and 012 have been added per the application request.**

9. ENDANGERED SPECIES

The receiving waterbody, Subsegment 042102 of the Lake Pontchartrain Basin is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U.S. Fish and Wildlife Service (FWS). The receiving waterbody, Subsegment 070301 of the Mississippi River Basin, has been identified by the U.S. Fish and Wildlife Service (FWS) as habitat for the Pallid Sturgeon, which is listed as an endangered species. This draft permit has been submitted to the FWS for review in accordance with a letter dated September 29, 2006 from Watson (FWS) to Brown (LDEQ). The more stringent of technology and water quality based limits (as applicable) have been applied to ensure maximum protection of the receiving water.

10. HISTORIC SITES

The discharge is from an existing facility location, which does not include an expansion on undisturbed soils. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the

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National Register of Historic Places, and in accordance with the "Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits" no consultation with the Louisiana State Historic Preservation Officer is required.

11. TENTATIVE DETERMINATION

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in the application.

12. PUBLIC NOTICES

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

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Rationale for Stolthaven New Orleans, LLC

1. **Outfall 001** – continuous discharge of treated process water from the chemical sewer system; wastewater from the tank/pipeline/transportation equipment cleaning operations, wastewater from treatment of offsite oil and organic wastes; bilge and ballast waters; hydrostatic and firefighting test waters; contaminated stormwater from the storage tank containment areas; sanitary wastewater; laboratory wastewater; and utility wastewaters (including boiler blowdown; steam condensate; flare liquid knockout, and scrubber wastewaters)

Pollutant	Limitations Mg/L		Reference
	Monthly Avg	Daily Max	
Flow (MGD)	Report	Report	LAC 33.IX.2707.1.1.b
<u>CWT PARAMETERS</u>			
BOD ₅	53	163	40 CFR 437.45(e)
TSS	26	58	previous permit
Oil & Grease	38	127	40 CFR 437.45(e)
pH s.u. (*2)	6.0 min	9.0 max	40 CFR 437.45(e)
Total Arsenic	---	0.10	previous Permit
Total Cadmium	0.0102	0.0172	40 CFR 437.45(e)
Total Chromium	0.323	0.42	40 CFR 437.45(e), previous permit
Total Cobalt	18.8	56.4	40 CFR 437.45(e)
Total Copper	---	0.10	previous permit
Total Lead	---	0.14	Previous permit
Total Mercury	---	0.0013	Previous permit
Total Tin	0.165	0.335	40 CFR 437.45(e)
Total Zinc	0.420	0.497	40 CFR 437.45(e)
Fluoranthene	0.0268	0.0537	40 CFR 437.45(e)
Acetone	7.97	30.2	40 CFR 437.45(e)
Acetophenone	0.0562	0.114	40 CFR 437.45(e)
Bis(2-ethylhexyl) phthalate	0.101	0.215	40 CFR 437.45(e)
2-butanone	1.85	4.81	40 CFR 437.45(e)
Butylbenzyl phthalate	0.0887	0.10	Previous permit; 40 CFR 437.45(e)
Carbazole	0.276	0.598	40 CFR 437.45(e)
o-Cresol	0.561	1.92	40 CFR 437.45(e)
p-Cresol	0.205	0.698	40 CFR 437.45(e)
n-Decane	0.437	0.948	40 CFR 437.45(e)
n-Octadecane	0.302	0.589	40 CFR 437.45 (e)
Phenol	---	0.10	Previous Permit
Pyridine	---	0.10	Previous Permit
2,4,6-Trichlorophenol	---	0.10	Previous Permit
<u>NON-CWT PARAMETERS</u>			
COD	250	400	BPJ, Previous Permit
Fecal Coliform Colonies/100 ml	200	400	BPJ, Previous Permit, LPDES Class II Sanitary General Permit
Total Phenols (*3)	---	0.500	BPJ, LDEQ empirical numbers
Total BTEX (*1)	---	0.250	BPJ

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PRIORITY POLLUTANT SCAN

<u>Pollutant</u>	<u>Limitation</u> Monthly Avg:Daily Max	<u>Reference</u>
<i>METALS and CYANIDE</i>		
Antimony(*5)	---:600 ug/l	previous permit, BPJ
Beryllium (*5)	---:100 ug/L	previous permit; BPJ
Nickel(*5)	---:500 ug/L	BPJ, LDEQ empirical numbers
Selenium(*5)	---:100 ug/L	previous permit, BPJ
Silver(*5)	---:100 ug/L	previous permit, BPJ
Thallium(*5)	---:100 ug/L	previous permit; BPJ
Total Cyanide(*5)	---:100 ug/L	BPJ, LDEQ empirical numbers
<i>VOLATILE COMPOUNDS</i>		
Acrolein (*5)	---:100 ug/L	previous permit; BPJ
Acrylonitrile(*5)	---:100 ug/L	previous permit; BPJ
Benzene(*1)(*5)	---:100 ug/L	previous permit; BPJ
Bromoform(*5)	---:100 ug/L	previous permit; BPJ
Carbon Tetrachloride(*5)	---:100 ug/L	previous permit; BPJ
Chlorobenzene(*5)	---:100 ug/L	previous permit; BPJ
Chlorodibromomethane(*5)	---:100 ug/L	previous permit; BPJ
Chloroethane (*5)	---:100 ug/L	previous permit; BPJ
2-Chloroethyl Vinyl Ether(*5)	---:100 ug/L	previous permit; BPJ
Chloroform(*5)	---:100 ug/L	previous permit; BPJ
Dichlorobromomethane (*5)	---:100 ug/L	previous permit; BPJ
1,1-Dichloroethane(*5)	---:100 ug/L	previous permit; BPJ
1,2-Dichloroethane(*5)	---:100 ug/L	previous permit; BPJ
1,1-Dichloroethylene(*5)	---:100 ug/L	previous permit; BPJ
1,2-Dichloropropane(*5)	---:100 ug/L	previous permit; BPJ
1,3-Dichloropropylene(*5)	---:100 ug/L	previous permit; BPJ
Ethylbenzene (*1)(*5)	---:100 ug/L	previous permit; BPJ
Methyl Bromide(*5)	---:100 ug/L	previous permit; BPJ
Methyl Chloride(*5)	---:100 ug/L	previous permit; BPJ
Methylene Chloride(*5)	---:100 ug/L	previous permit; BPJ
1,1,2,2-Tetra-Chloroethane(*5)	---:100 ug/L	previous permit; BPJ
Tetrachloroethylene(*5)	---:100 ug/L	previous permit; BPJ
Toluene(*1)(*5)	---:100 ug/L	previous permit; BPJ
1-2-Trans-Dichloroethylene(*5)	---:100 ug/L	previous permit; BPJ
1,1,1-Trichloroethane(*5)	---:100 ug/L	previous permit; BPJ
1,1,2-Trichloroethane(*5)	---:100 ug/L	previous permit; BPJ
Trichlorethylene(*5)	---:100 ug/L	previous permit; BPJ
Vinyl Chloride(*5)	---:100 ug/L	previous permit; BPJ
<i>ACID COMPOUNDS</i>		
2-Nitrophenol(*5)	---:100 ug/L	previous permit; BPJ
4-Nitrophenol(*5)	---:100 ug/L	previous permit; BPJ
2,4-Dinitrophenol(*5)	---:100 ug/L	previous permit; BPJ
4,6-Dinitro-O-Cresol(*5)	---:100 ug/L	previous permit; BPJ
P-Chloro-M-Cresol(*5)	---:100 ug/L	previous permit; BPJ

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<u>Pollutant</u>	<u>Limitation</u> Monthly Avg:Daily Max	<u>Reference</u>
Pentachlorophenol(*5)	---:100 ug/L	previous permit; BPJ
2-Chlorophenol (*5)	---:100 ug/L	previous permit; BPJ
2,4-Dichlorophenol (*5)	---:100 ug/L	previous permit; BPJ
2,4-Dimethylphenol (*5)	---:100 ug/L	previous permit; BPJ
BASE/NEUTRAL COMPOUNDS		
1,2-Dichlorobenzene(*5)	---:100 ug/L	previous permit; BPJ
1,2-Diphenylhydrazine(*5)	---:100 ug/L	previous permit; BPJ
1,2,4-Trichlorobenzene(*5)	---:100 ug/L	previous permit; BPJ
1,3-Dichlorobenzene(*5)	---:100 ug/L	previous permit; BPJ
1,4-Dichlorobenzene(*5)	---:100 ug/L	previous permit; BPJ
2-Chloronaphthalene(*5)	---:100 ug/L	previous permit; BPJ
2,4-Dinitrotoluene(*5)	---:100 ug/L	previous permit; BPJ
2,6-Dinitrotoluene(*5)	---:100 ug/L	previous permit; BPJ
3,3-Dichlorobenzidine(*5)	---:100 ug/L	previous permit; BPJ
3,4-Benzofluoranthene(*5)	---:100 ug/L	BPJ
4-Bromophenyl Phenyl Ether(*5)	---:100 ug/L	previous permit; BPJ
4-Chlorophenyl Phenyl Ether(*5)	---:100 ug/L	previous permit; BPJ
Acenaphthene(*5)	---:100 ug/L	previous permit; BPJ
Acenaphthylene(*5)	---:100 ug/L	previous permit; BPJ
Anthracene(*5)	---:100 ug/L	previous permit; BPJ
Benzidine(*5)	---:100 ug/L	BPJ
Benzo (a) Anthracene(*5)	---:100 ug/L	BPJ
Benzo (a) Pyrene(*5)	---:100 ug/L	BPJ
Benzo, (g,h,i) Perylene(*5)	---:100 ug/L	BPJ
Benzo (k) Fluoranthene(*5)	---:100 ug/L	BPJ
Bis (2-Chloroethoxy) Methane(*5)	---:100 ug/L	BPJ
Bis (2-Chloroethyl) Ether(*5)	---:100 ug/L	BPJ
Bis (2-Chloroisopropyl) Ether(*5)	---:100 ug/L	BPJ
Chrysene(*5)	---:100 ug/L	previous permit; BPJ
Dibenz(a,h)Anthracene(*5)	---:100 ug/L	previous permit; BPJ
Diethyl Phthalate(*5)	---:100 ug/L	previous permit; BPJ
Dimethyl Phthalate(*5)	---:100 ug/L	previous permit; BPJ
Di-N-Butyl Phthalate(*5)	---:100 ug/L	previous permit; BPJ
Di-N-Octyl Phthalate(*5)	---:100 ug/L	previous permit; BPJ
Fluorene(*5)	---:100 ug/L	previous permit; BPJ
Hexachlorobenzene(*5)	---:100 ug/L	previous permit; BPJ
Hexachlorobutadiene(*5)	---:100 ug/L	previous permit; BPJ
Hexachlorocyclopentadiene(*5)	---:100 ug/L	previous permit; BPJ
Hexachloroethane(*5)	---:100 ug/L	previous permit; BPJ
Ideno (1,2,3-c,d) Pyrene(*5)	---:100 ug/L	previous permit; BPJ
Isophorone(*5)	---:100 ug/L	previous permit; BPJ
Naphthalene(*5)	---:100 ug/L	previous permit; BPJ
Nitrobenzene(*5)	---:100 ug/L	previous permit; BPJ
N-Nitrosodimethylamine(*5)	---:100 ug/L	previous permit; BPJ
N-Nitrosodi-n-propylamine(*5)	---:100 ug/L	previous permit; BPJ

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<u>Pollutant</u>	<u>Limitation</u> Monthly Avg:Daily Max	<u>Reference</u>
N-Nitrosodiphenylamine(*5)	---:100 ug/L	previous permit; BPJ
Phenanthrene(*5)	---:100 ug/L	previous permit; BPJ
Pyrene(*5)	---:100 ug/L	previous permit; BPJ
PESTICIDES/HERBICIDES		
Alpha-Endosulfan(*5)	---:10 ug/L	previous permit; BPJ
Beta-Endosulfan(*5)	---:10 ug/L	previous permit; BPJ
Endosulfan Sulfate(*5)	---:10 ug/L	previous permit; BPJ
Alpha-BHC(*5)	---:10 ug/L	previous permit; BPJ
Aldrin(*5)	---:10 ug/L	previous permit; BPJ
Beta-BHC(*5)	---:10 ug/L	previous permit; BPJ
Gamma-BHC(*5)	---:10 ug/L	previous permit; BPJ
Delta-BHC(*5)	---:10 ug/L	previous permit; BPJ
Dieldrin(*5)	---:10 ug/L	previous permit; BPJ
4,4'-DDE(*5)	---:10 ug/L	previous permit; BPJ
4,4'-DDD(*5)	---:10 ug/L	previous permit; BPJ
4,4'-DDT(*5)	---:10 ug/L	previous permit; BPJ
Heptachlor(*5)	---:10 ug/L	previous permit; BPJ
Endrin Aldehyde(*5)	---:10 ug/L	previous permit; BPJ
Heptachlor Epoxide(*5)	---:10 ug/L	previous permit; BPJ
Chlordane(*5)	---:10 ug/L	previous permit; BPJ
Toxaphene(*5)	---:10 ug/L	previous permit; BPJ
2,3,7,8-TCDD (Dioxin) (*5)	---:5 ug/L	previous permit; BPJ
Endrin(*5)	---:5 ug/L	previous permit; BPJ
PCB-1242(*5)	(*4)	previous permit; BPJ
PCB-1254(*5)	(*4)	previous permit; BPJ
PCB-1221(*5)	(*4)	previous permit; BPJ
PCB-1232(*5)	(*4)	previous permit; BPJ
PCB-1248(*5)	(*4)	previous permit; BPJ
PCB-1260(*5)	(*4)	previous permit; BPJ
PCB-1016(*5)	(*4)	previous permit; BPJ

- (*1) This parameter shall be monitored if the outfall could potentially be affected by the handling and/or storage of commodities containing liquid or gaseous hydrocarbons. BTEX shall be measured as the sum of benzene, toluene, ethylbenzene, o-xylene, m-xylene, and p-xylene, as quantified by EPA methods 602, 624, 8020, or 8240.
- (*2) The permittee shall report on the Discharge Monitoring Reports both the minimum and the maximum instantaneous pH values measured.
- (*3) This parameter shall be monitored if the outfall could potentially be affected by the handling and/or storage of commodities containing any phenolic compound.
- (*4) There shall be no discharge of polychlorinated biphenyls (PCBs).
- (*5) This parameter shall be monitored if the outfall could potentially be affected by the handling and/or storage of commodities containing this parameter

Treatment: equalization, flocculation, floatation, trickling filtration, activated sludge carbon adsorption, neutralization, and disinfection

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Monitoring Frequency:

Flow shall be measured by continuous recorder.

BOD₅, TSS, Oil & Grease, COD, Fecal Coliforms, pH shall be monitored **3 times per week**.

Arsenic, cadmium, chromium, cobalt, copper, lead, mercury, tin, zinc, fluoranthene, acetone, acetophenone, bis(2-ethylhexyl)phthalate, 2-butanone, butylbenzyl phthalate, carbazole, o-cresol, p-cresol, n-decane, n-octadecane, phenol, pyridine, and 2,4,6-trichlorophenol **shall be monitored weekly**.

All other specified parameters **must be monitored once per month** during each month in which the outfall could potentially be affected by the handling/storing of commodities and/or treatment of offsite wastewater containing one or more of the specified chemicals, and once a month for two months thereafter. If the effluent limitation is exceeded during either of these two additional monitoring periods, then monitoring shall continue once per month until the limit is met for two consecutive months at which time monitoring for this parameter shall cease.

Limits Justification:

Bio-monitoring is not required for this outfall based on an evaluation of the facility's operational nature, projected flow and discharge location (Mississippi River).

This facility is subject to the New Source Performance Standards of the Effluent Limitations Guidelines for Transportation Equipment Cleaning (TEC), 40 CFR Part 442 Subparts A, B, C, and D and to the New Source Performance Standards of the Effluent Limitations Guidelines for Centralized Waste Treatment (CWT), 40 CFR Part 437 Subpart D Multiple Wastestreams. Section V.I of the CWT Final Rule, published on December 22, 2000, states that when wastewaters from CWT and TEC operations are commingled, the TEC wastewaters are subject to CWT limits. Per LAC33.IX.2707.L, renewed/reissued permit limits and conditions must be at least as stringent as the previous permit.

Parameter	Current Permit Limitations		CWT Guidelines 40 CFR 437.45(e)	
	AVG*	MAX*	AVG*	MAX*
BOD ₅	22	56	53	163
TSS	26	58	30.6	74.1
Oil & Grease	8.8	20	38	127
COD	250	400	---	---
Fecal Coliform	200	400	---	---
Colonies/100 ml				
pH s.u.	6.0	9.0	6.0	9.0
	min	max	min	max
Total Antimony	---	0.6	---	---
Total Arsenic	---	0.10	1.33	2.95
Total Cadmium	---	0.02	0.0102	0.0172
Total Chromium	---	0.42	0.323	0.746
Total Cobalt	---	---	18.8	56.4
Total Copper	---	0.10	0.242	0.500
Total Lead	---	0.14	0.160	0.350
Total Mercury	---	0.0013	0.00647	0.0172
Total Nickel	---	0.58	---	---

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Parameter	Current Permit Limitations		CWT Guidelines 40 CFR 437.45(e)	
	AVG*	MAX*	AVG*	MAX*
Total Selenium	---	0.1	---	---
Total Silver	---	0.1	---	---
Total Tin	---	---	0.165	0.335
Total Zinc	---	8.3	0.420	0.497
Phenanthrene	---	0.34	---	---
Acetone	---	---	7.97	30.2
Acetophenone	---	---	0.0562	0.114
Bis(2-ethylhexyl) phthalate	---	---	0.101	0.215
2-butanone	---	---	1.85	4.81
Butylbenzyl phthalate	---	0.10	0.0887	0.188
Carbazole	---	---	0.276	0.598
o-Cresol	---	---	0.561	1.92
p-Cresol	---	---	0.205	0.698
n-Decane	---	---	0.437	0.948
Fluoranthene	---	0.076	0.0268	0.0537
n-Octadecane	---	---	0.302	0.589
Phenol	---	0.10	1.08	3.65
Pyridine	---	0.10	0.182	0.370
2,4,6-Trichlorophenol	---	0.10	0.106	0.155

* units are mg/L unless otherwise indicated.

The BOD₅ and the Oil & Grease Limitations present in the previous permit were incorrectly applied to this discharge. Per 40 CFR 442.40, if wastewater generated from cleaning tanks used to transport food grade cargos is mixed with wastewater resulting from cleaning of tanks used to transport chemical or petroleum cargos, then the combined wastewater is subject to the provisions established for the corresponding tanks (i.e. Subparts A, B, or C). Per LAC33.IX.2707.L.2(a)(ii)(b), a renewal permit may contain a less stringent effluent limitation if “the administrator determines that technical mistakes...were made in issuing the permit.” Therefore, this renewal permit shall contain the BOD₅ and Oil and Grease limitations put forth in the CWT Guidelines, 40 CFR 437.45(e).

Current permit limits for Total Antimony, Total Nickel, Total Selenium, Total Silver, and Phenanthrene have been replaced with stormwater empirical limits based on BPJ and similar permitted facilities.

The Total Phenols parameter is included in the permit based on BPJ because the facility may handle and/or store commodities that contain phenolic compounds, and there is potential for leaks and spills during the transfer of the products. The effluent limit is based on permits issued to similar facilities.

A Water Quality Screen was conducted for arsenic, copper, lead, zinc, bromoform, chloroform, dichlorobromomethane, and bis(2-ethylhexyl)phthalate based on maximum and long-term average data presented in the application for Outfall 001. Because Water Quality Based Limits (WQBLs) are the total allowable discharge for a facility, a separate screen was conducted for the lead and zinc parameters to account for discharges from Outfalls 002, 003, and 005. WQBLs for these parameters are not required for Outfall 001.

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All other parameters are included in the permit based on BPJ and the previous permit because of the potential for the facility to handle and/or store commodities containing metals, volatile compounds, acid compounds, base/neutral compounds and pesticides/herbicides, and because there is potential for leaks and spills during the transfer of the products. The effluent limitations are based on state empirical limitations and are consistent with current LDEQ practices for permitting stormwater with potential to discharge these types of pollutants.

NOTE

For outfalls containing concentration limits, the usage of concentration limits is based on BPJ for similar outfalls since the flow is variable and estimated.

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2. **Outfall 002** – stormwater runoff from Tank Batteries, firefighting test waters, steam condensate, previously monitored hydrostatic test wastewater, and non-TEC wash water when treatment is not required. If water requires treatment, it shall be routed to the wastewater treatment plant and discharged through Outfall 001.

Outfall 003 - stormwater from Tank Batteries, firefighting test waters, steam condensate, previously monitored hydrostatic test waters, and non-TEC wash water when treatment is not required. If water requires treatment, it shall be routed to the wastewater treatment plant and discharged through Outfall 001.

Pollutant	Limitation	Reference
	Monthly Avg:Daily Max	
Flow	Report:Report	*, **, LAC33.IX.2707.1.1.b
TOC	---:50	*, **, BPJ
COD	---:125	Previous Permit, BPJ
Oil and grease	---:15	*,**BPJ
Total BTEX (*1)	---:250 ug/L	BPJ
Total Phenols (*2)	---:500 ug/L	BPJ
pH	6.0 - 9.0 su	*, **, LAC33.IX.1113.C.3.1

METALS and CYANIDE

Antimony (*3)	---:600 ug/L	BPJ
Arsenic (*3)	---:100 ug/L	BPJ
Beryllium (*3)	---:100 ug/L	BPJ
Cadmium (*3)	---:100 ug/L	BPJ
Chromium (*3)	---:150 ug/L	BPJ
Copper (*3)	---:500 ug/L	BPJ
Lead (*1,*3)	---:150 ug/L	BPJ
Mercury (*3)	---:10 ug/L	BPJ
Nickel (*3)	---:500 ug/L	BPJ
Selenium (*3)	---:100 ug/L	BPJ
Silver(*3)	---:100 ug/L	BPJ
Thallium(*3)	---:100 ug/L	BPJ
Zinc (*3)	---:1000 ug/L	BPJ
Total Cyanide (*3)	---:100 ug/L	BPJ

VOLATILE COMPOUNDS

Acrolein (*3)	---:100 ug/L	BPJ
Acrylonitrile (*3)	---:100 ug/L	BPJ
Benzene (*1,*3)	---:100 ug/L	BPJ
Bromoform (*3)	---:100 ug/L	BPJ
Carbon Tetrachloride(*3)	---:100 ug/L	BPJ
Chlorobenzene (*3)	---:100 ug/L	BPJ
Chlorodibromomethane (*3)	---:100 ug/L	BPJ
Chloroethane (*3)	---:100 ug/L	BPJ
2-Chloroethyl Vinyl Ether (*3)	---:100 ug/L	BPJ
Chloroform (*3)	---:100 ug/L	BPJ
Dichlorobromomethane (*3)	---:100 ug/L	BPJ

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Pollutant	Limitation		Reference
	Monthly Avg	Daily Max	
1,1-Dichloroethane (*3)	---	100 ug/L	BPJ
1,2-Dichloroethane (*3)	---	100 ug/L	BPJ
1,1-Dichloroethylene (*3)	---	100 ug/L	BPJ
1,2-Dichloropropane (*3)	---	100 ug/L	BPJ
1,3-Dichloropropylene (*3)	---	100 ug/L	BPJ
Ethylbenzene (*3)	---	100 ug/L	BPJ
Methyl Bromide (*3)	---	100 ug/L	BPJ
Methyl Chloride (*3)	---	100 ug/L	BPJ
Methylene Chloride (*3)	---	100 ug/L	BPJ
1,1,2,2-Tetra-Chloroethane (*3)	---	100 ug/L	BPJ
Tetrachloroethylene (*3)	---	100 ug/L	BPJ
Toluene (*3)	---	100 ug/L	BPJ
1-2-Trans-Dichloroethylene (*3)	---	100 ug/L	BPJ
1,1,1-Trichloroethane (*3)	---	100 ug/L	BPJ
1,1,2-Trichloroethane (*3)	---	100 ug/L	BPJ
Trichlorethylene (*3)	---	100 ug/L	BPJ
Vinyl Chloride (*3)	---	100 ug/L	BPJ

ACID COMPOUNDS

Phenol (*3)	---	100 ug/L	BPJ
2-Nitrophenol(*3)	---	100 ug/L	BPJ
4-Nitrophenol(*3)	---	100 ug/L	BPJ
2,4-Dinitrophenol(*3)	---	100 ug/L	BPJ
4,6-Dinitro-O-Cresol(*3)	---	100 ug/L	BPJ
P-Chloro-M-Cresol(*3)	---	100 ug/L	BPJ
Pentachlorophenol(*3)	---	100 ug/L	BPJ
2-Chlorophenol (*3)	---	100 ug/L	BPJ
2,4-Dichlorophenol (*3)	---	100 ug/L	BPJ
2,4,6-Trichlorophenol (*3)	---	100 ug/L	BPJ
2,4-Dimethylphenol (*3)	---	100 ug/L	BPJ

BASE/NEUTRAL COMPOUNDS

1,2-Dichlorobenzene(*3)	---	100 ug/L	BPJ
1,2-Diphenylhydrazine(*3)	---	100 ug/L	BPJ
1,2,4-Trichlorobenzene(*3)	---	100 ug/L	BPJ
1,3-Dichlorobenzene(*3)	---	100 ug/L	BPJ
1,4-Dichlorobenzene(*3)	---	100 ug/L	BPJ
2-Chloronaphthalene(*3)	---	100 ug/L	BPJ
2,4-Dinitrotoluene(*3)	---	100 ug/L	BPJ
2,6-Dinitrotoluene(*3)	---	100 ug/L	BPJ
3,3-Dichlorobenzidine(*3)	---	100 ug/L	BPJ
3,4-Benzofluoranthene(*3)	---	100 ug/L	BPJ
4-Bromophenyl Phenyl Ether(*3)	---	100 ug/L	BPJ
4-Chlorophenyl Phenyl Ether(*3)	---	100 ug/L	BPJ
Acenaphthene(*3)	---	100 ug/L	BPJ

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Pollutant	Limitation	Reference
	Monthly Avg:Daily Max	
Acenaphthylene(*3)	---:100 ug/L	BPJ
Anthracene(*3)	---:100 ug/L	BPJ
Benzidine(*3)	---:100 ug/L	BPJ
Benzo (a) Anthracene(*3)	---:100 ug/L	BPJ
Benzo (a) Pyrene(*3)	---:100 ug/L	BPJ
Benzo, (g,h,i) Perylene(*3)	---:100 ug/L	BPJ
Benzo (k) Fluoranthene(*3)	---:100 ug/L	BPJ
Bis (2-Chloroethoxy) Methane(*3)	---:100 ug/L	BPJ
Bis (2-Chloroethyl) Ether(*3)	---:100 ug/L	BPJ
Bis (2-Chloroisopropyl) Ether(*3)	---:100 ug/L	BPJ
Bis (2-Ethylhexyl) Phthalate(*3)	---:100 ug/L	BPJ
Butyl Benzyl Phthalate(*3)	---:100 ug/L	BPJ
Chrysene(*3)	---:100 ug/L	BPJ
Dibenz(a,h)anthracene(*3)	---:100 ug/L	BPJ
Diethyl Phthalate(*3)	---:100 ug/L	BPJ
Dimethyl Phthalate(*3)	---:100 ug/L	BPJ
Di-N-Butyl Phthalate(*3)	---:100 ug/L	BPJ
Di-N-Octyl Phthalate(*3)	---:100 ug/L	BPJ
Fluoranthene(*3)	---:100 ug/L	BPJ
Fluorene(*3)	---:100 ug/L	BPJ
Hexachlorobenzene(*3)	---:100 ug/L	BPJ
Hexachlorobutadiene(*3)	---:100 ug/L	BPJ
Hexachlorocyclopentadiene(*3)	---:100 ug/L	BPJ
Hexachloroethane(*3)	---:100 ug/L	BPJ
Ideno (1,2,3-c,d) Pyrene(*3)	---:100 ug/L	BPJ
Isophorone(*3)	---:100 ug/L	BPJ
Naphthalene(*3)	---:100 ug/L	BPJ
Nitrobenzene(*3)	---:100 ug/L	BPJ
N-Nitrosodimethylamine(*3)	---:100 ug/L	BPJ
N-Nitrosodi-n-propylamine(*3)	---:100 ug/L	BPJ
N-Nitrosodiphenylamine(*3)	---:100 ug/L	BPJ
Phenanthrene(*3)	---:100 ug/L	BPJ
Pyrene(*3)	---:100 ug/L	BPJ
PESTICIDES/HERBICIDES		
Alpha-Endosulfan(*3)	---:10 ug/L	BPJ
Beta-Endosulfan(*3)	---:10 ug/L	BPJ
Endosulfan Sulfate(*3)	---:10 ug/L	BPJ
Aldrin(*3)	---:10 ug/L	BPJ
Alpha-BHC(*3)	---:10 ug/L	BPJ
Beta-BHC(*3)	---:10 ug/L	BPJ
Gamma-BHC(*3)	---:10 ug/L	BPJ
Delta-BHC(*3)	---:10 ug/L	BPJ
Dieldrin(*3)	---:10 ug/L	BPJ
4,4'-DDE(*3)	---:10 ug/L	BPJ
4,4'-DDD(*3)	---:10 ug/L	BPJ
4,4'-DDT(*3)	---:10 ug/L	BPJ

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Pollutant	Limitation	Reference
	Monthly Avg: Daily Max	
Heptachlor(*3)	---:10 ug/L	BPJ
Endrin Aldehyde(*3)	---:10 ug/L	BPJ
Heptachlor Epoxide(*3)	---:10 ug/L	BPJ
Chlordane(*3)	---:10 ug/L	BPJ
Toxaphene(*3)	---:10 ug/L	BPJ
PCB-1242(*3)	(*4)	BPJ
PCB-1254(*3)	(*4)	BPJ
PCB-1221(*3)	(*4)	BPJ
PCB-1232(*3)	(*4)	BPJ
PCB-1248(*3)	(*4)	BPJ
PCB-1260(*3)	(*4)	BPJ
PCB-1016(*3)	(*4)	BPJ
2,3,7,8-TCDD (Dioxin)(*3)	---:5 ug/L	BPJ
Endrin(*3)	---:5 ug/L	BPJ

BPJ Best Professional Judgement

su Standard Units

* LDEQ's guidance on stormwater, letter dated 6/17/87, from J. Dale Givens (LDEQ) to Myron Knudson (EPA Region 6)

** Light Commercial General Permit, Schedule C: Equipment repair area washdown, shop floor washdown, and utility washwater all without soaps and detergents.

(*1) This parameter shall be monitored if the outfall could potentially be affected by the handling and/or storage of commodities containing liquid or gaseous hydrocarbons. BTEX shall be measured as the sum of benzene, toluene, ethylbenzene, o-xylene, m-xylene, and p-xylene, as quantified by EPA methods 602, 624, 8020, or 8240.

(*2) This parameter shall be monitored if the outfall could potentially be affected by the handling and/or storage of commodities containing any phenolic compound.

(*3) This parameter shall be monitored if the outfall could potentially be affected by the handling and/or storage of commodities containing this parameter

(*4) There shall be no discharge of polychlorinated biphenyls (PCBs).

Treatment: none

Monitoring Frequency: Flow, COD, TOC, oil and grease, and pH shall be monitored monthly.

All other parameters must be monitored once during each month in which the outfall could potentially be affected by handling and/or storing commodities containing one or more of the specified chemicals, and once a month for two months thereafter (i.e., if a commodity containing one or more of the specified chemicals is handled and/or stored within the tank farm, the specified parameter must be monitored at the outfall for the respective tank farm once during each month in which the specified chemical is handled and/or stored within that tank farm, and monitoring shall continue once per month for two months after the commodity is no longer handled and/or stored within that tank farm). If the effluent limitation is exceeded during either of these two additional months, then monitoring shall continue once per month until the limit is met for two consecutive months at which time monitoring for the specified parameter shall cease.

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Limits Justification:

Flow, oil and grease, and pH limits are based on LDEQ's guidance on stormwater, letter dated 6/17/87, from J. Dale Givens (LDEQ) to Myron Knudson (EPA Region 6). COD limits are based on the previous permit and LDEQ policy for permitting process wastewater combined with stormwater.

The Total Phenols parameter is included in the permit based on BPJ because the facility may handle and/or store commodities that contain phenolic compounds, and there is potential for leaks and spills during the transfer of the products. The effluent limit is based on current LDEQ practices.

The Total BTEX parameter is included in the permit based on BPJ because the facility may handle and/or store commodities containing liquid or gaseous hydrocarbons., and there is potential for leaks and spills during the transfer of the products. The effluent limit is based on current LDEQ practices.

All other parameters are included in the permit based on BPJ because of the potential for the facility to handle and/or store commodities containing metals, volatile compounds, acid compounds, base/neutral compounds and pesticides/herbicides, and because there is potential for leaks and spills during the transfer of the products. The effluent limitations are based on state empirical limitations and are consistent with current LDEQ practices for permitting stormwater with potential to discharge these types of pollutants.

The previous permit contains limits from 40 CFR 442 (TEC Guidelines). This new application states that the stormwater discharged from Outfalls 002 and 003 "originates from the secondary containment structures surrounding fixed, above-ground storage tanks. There are no TEC activities that occur within these secondary containment structures." Non-TEC washwater is defined by the application as "exterior washing and slab washdown associated with housekeeping." Equipment in these containment areas includes pumps, chillers, and piping. Per 40 CFR 442.1 and 442.2, this type of wastewater is not defined as *Transportation Equipment Cleaning Process Wastewater* and is not regulated by these guidelines.

NOTE

For outfalls containing concentration limits, the usage of concentration limits is based on BPJ for similar outfalls since the flow is variable and estimated.

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3. **Outfall 005 – hydrostatic test wastewater**

Pollutant	Limitation		Reference
	Monthly Avg (mg/L)	Daily Max (mg/L)	
Flow	---	Report	Previous permit, LAG670000
TSS ^(*1)	---	90	Previous permit, LAG670000
Oil & Grease	---	15	Previous permit, LAG670000
TOC ^(*2)	---	50	Previous permit, LAG670000
Benzene ^(*2)	---	50 ug/L	Previous permit, LAG670000
Total BTEX ^(*2,*3)	---	250 ug/L	Previous permit, LAG670000
Lead ^(*2)	---	50 ug/L	Previous permit, LAG670000
pH (allowable range)	6.0 su (min)	9.0 su (max)	Previous permit, LAG670000

(*1) The background concentration of Total Suspended Solids (TSS) will be allowed in the discharge if the effluent is returned to the same source from which the intake water was obtained. In these cases, the permit limitations will be 90 mg/L plus the concentration of TSS in the intake water. The TSS concentration of the intake water shall be reported on the DMR along with the concentration of TSS in the effluent.

(*2) TOC shall be measured on discharges from pipelines, flowlines, piping, vessels, or tanks which have previously been in service. Benzene, Total BTEX, and Lead shall be monitored on discharges from pipelines, flowlines, piping, vessels, or tanks which have been used for the storage or transportation of liquid or gaseous hydrocarbons. Accordingly, for new pipelines, flowlines, piping, vessels, or tanks, Flow, TSS, Oil & Grease, and pH are the only testing requirements.

(*3) BTEX shall be measured as the sum of benzene, toluene, ethylbenzene, o-xylene, m-xylene, and p-xylene, as quantified by EPA methods 602, 624, 8020, or 8240.

su Standard Units

Treatment: none

Monitoring Frequency: Once per discharge. TOC monitoring is required only for discharges from pipes, vessels, and/or tanks which have previously been in service – i.e., those which are not new. Benzene, BTEX, and lead monitoring is required only for discharges from pipes, vessels, and/or tanks which have been used for storage or transportation of liquid or gaseous petroleum hydrocarbons. If any discharge extends beyond one week in duration, then sampling of the above parameters shall continue on a weekly basis until the discharge ends (BPJ, LAG670000)

Limits Justification: limits are based on the previous permit and on the Hydrostatic Test General Permit, LAG670000

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4. **Outfall 006** – treated sanitary wastewater

Outfall 007 – treated sanitary wastewater

Outfall 008 – treated sanitary wastewater

Pollutant	Limitation		Reference
	Monthly Avg (mg/L)	Weekly Avg (mg/L)	
Flow	Report	Report	LAG530000
BOD ₅	---	45	LAG530000
TSS	---	45	LAG530000
Oil & Grease	---	15	LAG530000
Fecal Coliform colonies/100 ml	---	400	LAG530000
pH (allowable range)	6.0 su (min)	9.0 su (max)	Previous permit, LAG530000

su Standard Units

Treatment: package treatment plant with disinfection (chlorine)

Monitoring Frequency: once per 6 months

Limits Justification: all limits are based on the previous permit and the Class I Sanitary General Permit, LAG530000. Subsegment 042102 is designated as an oyster propagation area. However, per LAC 33.IX.1111.E, the designation applies only to the named waterbody in the Numerical Criteria and Designated Uses Table. Therefore, the standard fecal Coliform limit has been included for these discharges.

NOTE

For outfalls containing concentration limits, the usage of concentration limits is based on BPJ for similar outfalls since the flow is variable and estimated.

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5. **Outfall 009** – storm water from parking lots and unpaved areas of the terminal, firefighting test water, previously monitored hydrostatic test wastewater, and previously monitored sanitary wastewater from Outfalls 007 and 008
Outfall 010 – storm water from parking lots and unpaved areas of the terminal, firefighting test water, previously monitored hydrostatic test wastewater, and previously monitored sanitary wastewater from Outfalls 007 and 008
Outfall 011 – storm water from parking lots and unpaved areas of the terminal, firefighting test water, previously monitored hydrostatic test wastewater, and previously monitored sanitary wastewater from Outfalls 007 and 008
Outfall 012 – storm water from parking lots and unpaved areas of the terminal, firefighting test water, previously monitored hydrostatic test wastewater, and previously monitored sanitary wastewater from Outfalls 007 and 008

Pollutant	Limitation		Reference
	Monthly Avg (mg/L)	Weekly Avg (mg/L)	
Flow	---	Report	*
Oil & Grease	---	15	*
TOC	---	50	*
pH (allowable range)	6.0 su (min)	9.0 su (max)	*
* LDEQ's guidance on stormwater, letter dated 6/17/87, from J. Dale Givens (LDEQ) to Myron Knudson (EPA Region 6)			
su Standard Units			

Treatment: NONE

Monitoring Frequency: Once per quarter for all parameters

Limits Justification: All limits are based on the LDEQ stormwater guidance referenced above. Currently, Outfalls 009, 010, 011, and 012 discharge stormwater that does not have the potential to contact process areas. However, the proposed additions to the permit presented in the application show additional tank batteries will be constructed in these areas. Therefore stormwater has been included as a permitted outfall for these locations.

Although the potential for contamination is currently low for these areas, they shall be included in the Stormwater Pollution Prevention Plan due to the toxic nature of the chemicals handled at the facility and the previous compliance problems at the site.

The facility must notify LDEQ in writing prior to storing commodities in these areas.

Storm Water Pollution Prevention Plan (SWP3) Requirement

As per LAC33:IX.2511.B.14.k, stormwater discharges from facilities classified as SIC Codes 4226, 4491, and 4499 are considered to be associated with industrial activities. A SWP3 requirement is included in the permit because there is a potential for storm water contamination from processes including loading and unloading chemicals, construction, and area wash down.

The SWP3 shall be prepared, implemented, and maintained within six (6) months of the effective date of the final permit. The plan should identify potential sources of storm water pollution and ensure the implementation of practices to prevent and reduce pollutants in storm water discharges associated with industrial activity at the facility (see Facility Specific Requirements of the Draft Permit).